

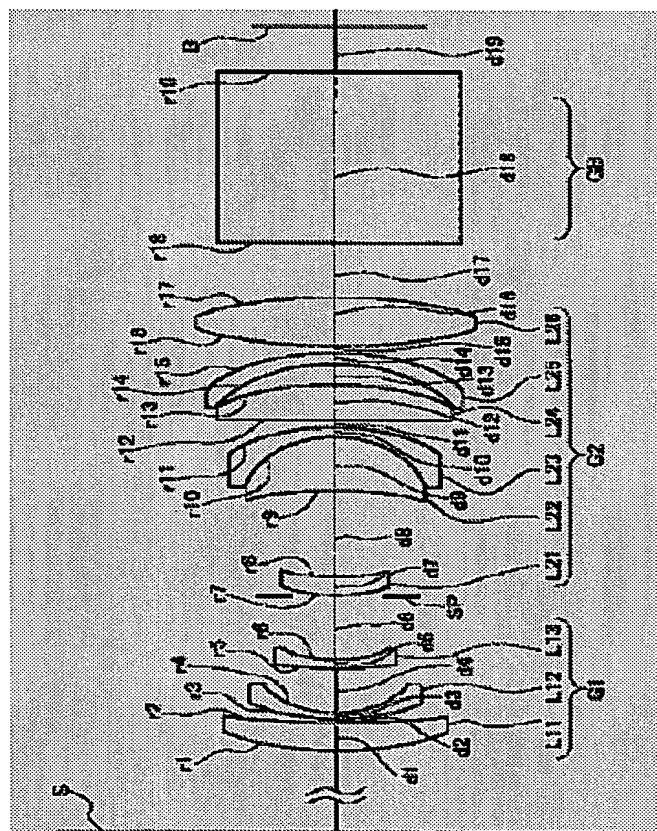
## PROJECTION LENS AND PROJECTOR USING THE SAME

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### Abstract of JP2002341242

**PROBLEM TO BE SOLVED:** To provide a projection lens by which a picture having a high quality is realized over an entire screen by sufficiently correcting transverse chromatic aberration, which is made small-sized and is made light in weight and whose cost is low in the projection lens to enlarge and project an optical image illuminated with light from a light source on a spatial optical modulating element on a screen. **SOLUTION:** This projection lens is provided with a first group lens G1 constituted of at least two lenses, a diaphragm SP and a second group lens G2 having positive refracting power in order from a screen side, and when the focal distance of an i-th lens is set as  $f_i$  and the Abbe number of a lens thereof is set as  $v_i$ , all lenses constituting the second group lens satisfy the condition of  $-0.0004 < \Sigma (1/(f_i \times v_i)) < 0.0015$ . Thus, the transverse chromatic aberration is excellently corrected, so that an excellent picture is displayed in the entire range of the screen.



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